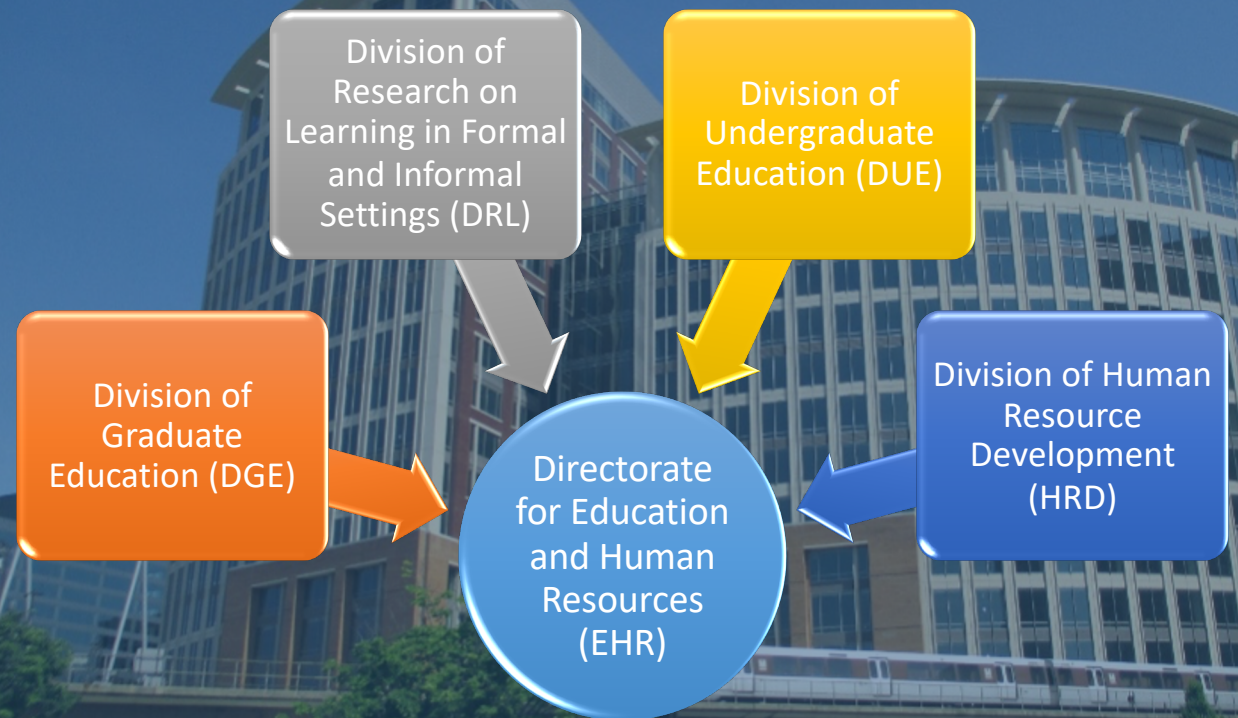Racial Equity in STEM Education Program Description (PD 21-191Y)
May 2021 Outreach Webinar

Directorate for Education & Human Resources

Division of Research on Learning in Formal and Informal Settings (DRL)

Division of Undergraduate Education (DUE)

Division of Graduate Education (DGE)

Division of Human Resource Development (HRD)

Directorate for Education and Human Resources (EHR)

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Overview

- Goals of the Program Description

- What is a program description?

- Essential components

- Proposal Preparation

- Submission process

Racial Equity in STEM Education Program

Description

Goals

- Advance the science & promotion of racial equity in STEM

- Substantively contribute to removing systemic barriers that impact STEM education, the STEM workforce, & scientific advancement

- Institutionalize effective & inclusive environments for STEM learning, STEM research, & STEM professionals

- Diversify the project leadership (PIs and co-PIs), institutions, ideas, & approaches that NSF funds

- Expand the array of epistemologies, perspectives, & experiences in STEM

Racial Equity in STEM Education Program Description Goals

- Advance the science & promotion of racial equity in STEM
- Substantively contribute to removing systemic barriers that impact STEM education, the STEM workforce, & scientific advancement
- Institutionalize effective & inclusive environments for STEM learning, STEM research, & STEM professionals
- Diversify the project leadership (PIs and co-PIs), institutions, ideas, & approaches that NSF funds
- Expand the array of epistemologies, perspectives, & experiences in STEM

What is a program description?

- A call for proposals that encourages the submission of proposals in a general area of interest to NSF

- The "Synopsis" is the whole Program Description. That's it! (No additional announcements or information are provided.)

- All submissions must follow NSF's *Proposal & Award Policies & Procedures Guide* (PAPPG)

Essential Components of the Racial Equity in STEM Education Program Description (PD 21-191Y)

Racial Equity & Systemic Racism

Competitive proposals will be clear with respect to how the work

advances racial equity & addresses systemic racism

(*these constructs may have different meanings in different settings so be sure to define your terms*)

Racial Equity & Systemic Racism

How do systemic barriers impact access to, retention in, & success in STEM education, research, workforce development

Generate knowledge through research & practice

- Building theory,
- Developing methods,
- Testing approaches and interventions,
- Assessing the potential, efficacy, effectiveness, and scalability of approaches and interventions,
- Establishing, cultivating and assessing authentic partnerships,
- Changing institutional, organizational, and structural practices and policies, and/or
- Focusing on affective, behavioral, cultural, social components, and implications

Leadership

Proposals will be *led by*, or *developed & led in authentic partnership with*

individuals & communities most impacted by the inequities caused by systemic racism

Leadership

The voices, knowledge, & experiences of those who have been impacted by enduring racial inequities should be at the center of these proposals

- Project leadership & research positions
- Conceptualization of the proposal, decision-making processes
- Interpretation & dissemination of evidence and research results

Proposal Preparation for the Racial Equity in STEM Education Program Description (PD 21-191Y)

Proposal Preparation

PAPPG

Proposal & Award
Policies & Procedures Guide
(Search Chapter 2)

Proposal Preparation PAPPG

Proposal format
- Pagination instructions
- Font, spacing & margin requirements
- Page formatting

Proposal Preparation PAPPG

Eligibility: Who may submit?

Submission: How to submit?

How will proposals be reviewed?

Proposal Preparation PAPPG

Proposal content
Sections of the proposal

a. Cover Sheet
b. Project Summary
c. Table of Contents
d. Project Description (15 pp maximum)
e. References Cited
f. Biographical Sketch(es)
g. Budget and Budget Justification
h. Current and Pending Support
i. Facilities, Equipment and Other Resources
j. Special Information and Supplementary Documentation
   - Data Management Plan
   - Postdoctoral Mentoring Plan (if applicable)
k. Single Copy Documents
   - Collaborators & Other Affiliations Information

Proposal Preparation

Dissemination plan

- Proactively share what is learned with individuals & communities most impacted, as well as relevant leaders, policy makers, and other stakeholders

Budget & project duration

- Determined by the scope of the activities and in accordance with the PAPPG
- No specified budget limits
- Generally up to 3-5 years

Project Contexts

Educational institutions

PreK-12

Two- & four-year undergraduate

Graduate institutions

Municipal organizations

STEM workplaces

Informal STEM contexts

Museums

Community organizations

Media

Other contexts

STEM Areas

Subject areas may include all science, technology, engineering, mathematics, and all other domains currently supported by NSF as they relate to STEM Education.

Health and medicine are typically the domain of NIH, unless they are specifically related to STEM education or other areas supported by NSF.

Submission Process for the Racial Equity in STEM Education Program Description

Optional One Page Concept Paper

- If you would like feedback on a concept, email a one-page concept paper to EHRRacialEquityPD@NSF.gov

- Be clear with respect to how your concept aligns with the Racial Equity in STEM Education Program Description (PD 21-191Y)

- To receive feedback before a deadline date, concept papers must be received at least six weeks prior to the Target Date

Nuts, Bolts, & Other Questions

- Program Description has funding from programs across the Directorate for Education & Human Resources

- As this is a Program Description, neither funding levels for individual proposals nor total funding for the Program Description is available

Nuts, Bolts, & Other Questions

How do I determine where to submit my concept?

(1) to an EHR Program Solicitation or

(2) to the Racial Equity in STEM Education

Program Description (PD 21-191Y)?

Full Proposal Dates

July 13, 2021

October 12, 2021 - 2nd Tuesday in October thereafter

March 22, 2022 - 4th Tuesday in March thereafter

Proposals can be submitted using

Research.gov or Grants.gov

Proposal Review

Intellectual Merit: What new knowledge will this project create?

Broader Impacts: What impact will this project have on society at large?

NSF Merit Review Criteria

1. What is the potential for the proposed activity to:

   a. Advance knowledge and understanding within its own field or across different fields (Intellectual Merit); and

   b. Benefit society or advance desired societal outcomes (Broader Impacts)?

2. To what extent do the proposed activities suggest and explore creative, original, or potentially transformative concepts?

3. Is the plan for carrying out the proposed activities well-reasoned, well-organized, and based on a sound rationale? Does the plan incorporate a mechanism to assess success?

4. How well qualified is the individual, team, or organization to conduct the proposed activities?

5. Are there adequate resources available to the PI (either at the home organization or through collaborations) to carry out the proposed activities?

EHRRacialEquityPD@nsf.gov 703-292-5009
Education and Human Resources Directorate (EHR)

Division of Graduate Education (DGE)	Division of Research on Learning in Formal & Informal Settings (DRL)	Division of Undergraduate Education (DUE)	Division of Human Resource Development (HRD)
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Nigamanth Sridhar	Beth Herbel-Eisenmann	Eric Sheppard	Robert (Bob) Mayes
	Toya Frank		Sandra Romano
	Ellen McCallie		
	Monya Ruffin		

Resources

- NSF <u>Proposal & Award Preparation & Guidelines</u>
- Proposal review: https://www.nsf.gov/bfa/dias/policy/merit_review/
- Training for submitting
  - Research.gov
  - Grants.gov
- <u>Grants.gov Application Guide</u>
- <u>NSF Virtual Grants Conference</u> June 7-11
- **EHRRacialEquityPD@nsf.gov   703-292-5009**
  - Visit webpage for upcoming office hours information and announcements

EHRRacialEquityPD@nsf.gov
703-292-5009

Education & Human Resources
Directorate (EHR)

Questions?